

Appl. No. : 10/789,892
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LISTING OF CLAIMS

1. **(Previously Presented)** A securement device for a percutaneous sheath introducer or another medical article comprising:

 a pad having an adhesive surface on one side thereof adapted to adhere to the skin of a patient at least when exposed to the atmosphere;

 a peel-off backing sheet adhering to at least a portion of said pad and adapted to be peeled away from said pad;

 a securement base secured to said pad, said base being comprised of a first upper support base portion supported at least in part by a second lower support plate, said support plate being secured to said pad and including at least one biasing member, at least a portion of said biasing member being disposed below said first upper support base portion and having a generally fixed base and a deflectable beam section that flexes relative to said fixed base; and

 at least one elongated strand being coupled to said biasing member and having a free end, said free end being configured to be tied about a portion of said medical article and secured relative to said securement base.

2. **(Previously Presented)** The device of claim 1 wherein said base has one or more holes extending therethrough, and wherein said beam section is embedded in said second lower support plate, said strand extending through said beam section when inserted into the holes in said base.

3. **(Previously Presented)** The device of claim 2 wherein said base has at least 1 spaced hole.

4. **(Previously Presented)** The device of claim 2 wherein said one or more holes include at least one or more hole portion extending through said upper support base portion and at least one or more hole portion extending through said lower support plate, said hole portions being aligned to form said at least one or more holes through said base.

5. **(Original)** The device of claim 1 wherein said base has a concave portion in substantially the middle thereof.

6. **(Original)** The device of claim 1 wherein said base has a first elongated end wall spaced from a second elongated end wall, and said end walls are interconnected by spaced side walls curving inwardly at generally the midpoint thereof.

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7. (Original) The device of claim 6 wherein said base has a concave portion at generally the midpoint thereof extending from one of said side walls where said side wall curves inwardly to the other.

8. (Original) The device of claim 7 wherein one end of said concave portion is raised with respect to the other.

9. (Original) The base of claim 7 wherein one end of said base adjacent one of said end walls slopes inwardly toward the center, then downwardly toward the other end wall to form a center raised portion.

10. (Original) The device of claim 1 including a plurality of spaced protrusions upwardly extending from said base.

11. (Original) The device of claim 10 wherein said protrusions are conically shaped having a wide base portion at its connection to said base extending upwardly to a rounded tapered end.

12. (Cancelled).

13. (Original) The device of claim 11 wherein said protrusions vary in overall height.

14. (Cancelled).

15. (Original) The device of claim 1 wherein said base is of a polycarbonate material.

16. (Original) The device of claim 1 wherein said base is of a plastic material.

17. (Original) The device of claim 1 wherein said pad is of a fabric material overlaid by a hydrocolloid adhesive material.

18. (Original) The device of claim 1 wherein said at least one strand is of a silk material.

19. (Original) The device of claim 1 wherein said at least one strand is of flexible material.

20. (Original) The device of claim 1 wherein said at least one strand is of a flexible material substantially non-extendable along its long axis.

21. (Cancelled).

22. (Original) The device of claim 1 wherein said upper support base portion is of a polymeric material.

23. (Previously Presented) The device of claim 2 wherein said holes extending through said base include hole portions through tabs cut out of the upper surface of said base and

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attached at one end to the upper surface of said base and said hole portions communicating with hole portions through the remainder of said base.

24. **(Previously Presented)** The device of claim 1 wherein said biasing member is embedded in said second lower support plate and conforms substantially to the configuration of said lower support plate and to said retained portion of said medical article disposed on said base, said strand extending about and under said biasing member.

25. **(Previously Presented)** The device of claim 1 wherein said biasing member is integral with said lower support plate and substantially conforms to the configuration of said lower support plate, said securement base varying in hardness from the top to bottom thereof, said strand extending about and under said biasing member.

26. **(Previously Presented)** The device of claim 24 wherein said biasing member creates and maintains tension on said at least one strand when said at least one strand is secured to said base.

27. **(Previously Presented)** The device of claim 26 wherein said base has one or more holes extending therethrough, and wherein said at least one strand is knotted in said at least one hole through said base.

28. **(Previously Presented)** The device of claim 27 wherein said at least one strand is glued to the underside of said second lower support plate.

29. **(Cancelled).**

30. **(Previously Presented)** A securement device for a percutaneous sheath introducer or another medical article comprising:

a pad having an adhesive surface on one side thereof adapted to adhere to the skin of a patient at least when exposed to the atmosphere;

a peel-off backing sheet adhering to at least a portion of said pad and adapted to be peeled away from said pad;

a securement base secured to said pad, said base being comprised of a first upper support portion and a second lower support portion, said first upper support portion being elastically deformable, and said second lower support portion being secured to said pad and being harder than said first upper support portion; and

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at least one elongated strand being coupled to said base and having a free end, said free end being configured to be tied about a portion of said medical article and secured relative to said securement base.

31. **(Previously Presented)** The device of claim 30 wherein said base has one or more holes extending therethrough, and wherein said at least one strand has one end knotted in said hole extending through said base at the bottom thereof.

32. **(Original)** The device of claim 30 wherein said at least one strand has one end glued at the bottom thereof to said base.

33. **(Cancelled).**

34. **(Previously Presented)** The device of claim 30 wherein said base has at least two holes, one of said holes extending through a tab on the upper surface of said base, the other of said holes being disposed in a post extending upwardly from said base spaced from said tab, said at least one strand extending upwardly through said one of said holes and knotted at the bottom of the hole through said base, then through the hole in said post where the free end of said strand is adapted to be tied to itself and about a connector on an upper surface of said base.

35. **(Previously Presented)** The device of claim 34 wherein a concave area is provided in the first upper support portion extending across said base, said concave area having a raised portion at generally the middle thereof.

36. **(Original)** The device of claim 34 including a plurality of protrusions extending upwardly from said base.

37. **(Original)** The device of claim 36 wherein said post extends upwardly from said base above said protrusions, said hole through said post being at the upper end thereof.

38. **(Previously Presented)** A securement device for a percutaneous sheath introducer or other medical articles comprising:

a pad having an adhesive surface on one side thereof adapted to adhere to the skin of a patient when exposed to the atmosphere;

a peel off backing sheet adhering to at least a portion of said pad and adapted to expose said pad to the atmosphere when peeled away from said pad;

a securement base fixedly secured to said pad, said base having at least two spaced holes extending therethrough, one of said holes extending through a tab on the upper surface of said base, the other of said holes being disposed in a post extending

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upwardly from said base spaced from said tab, said base being comprised of a first upper support base portion secured to a second lower support plate, said support plate being secured to said pad, wherein a concave area is provided in the upper support base portion extending across said base, said concave area having a raised portion at generally the middle thereof; and

at least one flexible elongated strand having a free end one extending upwardly through said one of said holes and knotted at the bottom of the hole through said base, then through the hole in said post where the free end of said strand is adapted to be tied to itself and about a connector on the upper surface of said base.

39. **(Previously Presented)** A securement device for a percutaneous sheath introducer or other medical articles comprising:

a pad having an adhesive surface on one side thereof adapted to adhere to the skin of a patient when exposed to the atmosphere;

a peel off backing sheet adhering to at least a portion of said pad and adapted to expose said pad to the atmosphere when peeled away from said pad;

a securement base fixedly secured to said pad, said base having at least two spaced holes extending therethrough and a plurality of protrusions extending upwardly from said base, one of said holes extending through a tab on the upper surface of said base, the other of said holes being disposed in a post extending upwardly from said base spaced from said tab, said base being comprised of a first upper support base portion secured to a second lower support plate, said support plate being secured to said pad; and

at least one flexible elongated strand having a free end one extending upwardly through said one of said holes and knotted at the bottom of the hole through said base, then through the hole in said post where the free end of said strand is adapted to be tied to itself and about a connector on the upper surface of said base.

40. **(Previously Presented)** A securement device for a percutaneous sheath introducer or other medical articles comprising:

a pad having an adhesive surface on one side thereof adapted to adhere to the skin of a patient when exposed to the atmosphere;

a peel off backing sheet adhering to at least a portion of said pad and adapted to expose said pad to the atmosphere when peeled away from said pad;

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a securement base fixedly secured to said pad, said base having at least two spaced holes extending therethrough and a plurality of protrusions extending upwardly from said base, one of said holes extending through a tab on the upper surface of said base, the other of said holes being disposed in a post extending upwardly from said base spaced from said tab, said base being comprised of a first upper support base portion secured to a second lower support plate, said support plate being secured to said pad, wherein said post extends upwardly from said base above said protrusions, said hole through said post being at the upper end thereof; and

at least one flexible elongated strand having a free end one extending upwardly through said one of said holes and knotted at the bottom of the hole through said base, then through the hole in said post where the free end of said strand is adapted to be tied to itself and about a connector on the upper surface of said base.

41. **(Previously Presented)** The device of claim 30 further comprising at least one biasing member, at least a portion of said biasing member being disposed below said first upper support portion and having a generally fixed base and a deflectable beam section that flexes relative to said fixed base.

42. **(Previously Presented)** The device of claim 30, wherein said securement base increases in hardness from the bottom to the top.

43. **(Previously Presented)** The device of claim 30, wherein said first upper support portion is comprised of a polymeric material that has a Shore A hardness of no greater than 35A durometer.

44. **(Previously Presented)** The device of claim 30, wherein said second lower support portion produces compressive stresses within said first upper support portion that bear against said portion of said medical article when said medical article is secured to said securement base.

45. **(Previously Presented)** The device of claim 30, wherein said second lower support portion is comprised of a first material and the first upper support portion is comprised of a second material, and the second material is softer than the first material.

46. **(Previously Presented)** The device of claim 45, wherein said second material is a polymeric material.

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47. **(Previously Presented)** The device of claim 45, wherein said first material is a polycarbonate.

48. **(Previously Presented)** The device of claim 1, wherein said at least one strand has one end glued at the bottom thereof to said base.